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## Two new species of the Nolinae (Noctuidae) from Taiwan

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**Abstract** Two new species, *Nola quadriguttula* and *Rhynchopalpus yoshimotoi*, are described from Taiwan, with illustrations of moths and genitalia. *Poecilonola pulchella* (Leech) from Japan is transferred to *Rhynchopalpus*.

**Key words** *Nola*, *Poecilonola*, *Rhynchopalpus*, classification, Taiwan.

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All the specimens recorded hereunder will be transferred to the Natural History Museum, London, after the publication of this paper.

### *Nola quadriguttula* sp. nov. (Fig. 1)

Male. Antenna ciliate, longest ciliae about three times width of shafts. Palpus greyish brown, margined with white scales. Face, basal half of antennal shaft and patagium white, faintly hued with brown, tegula a little darker.

Wingspan 15 mm. Forewing pale greyish brown, costa heavily decorated with two blackish brown spots, with an oblong mark of the same colour in the basal area. Transverse lines faint, postmedian dotted line margined distally with whitish, fringe pale greyish brown. Hindwing white, faintly hued with greyish brown, fringe dark grey, unmarked. Under surface darker, forewing with costal marks weakly reproduced, hindwing with a small discal dot.

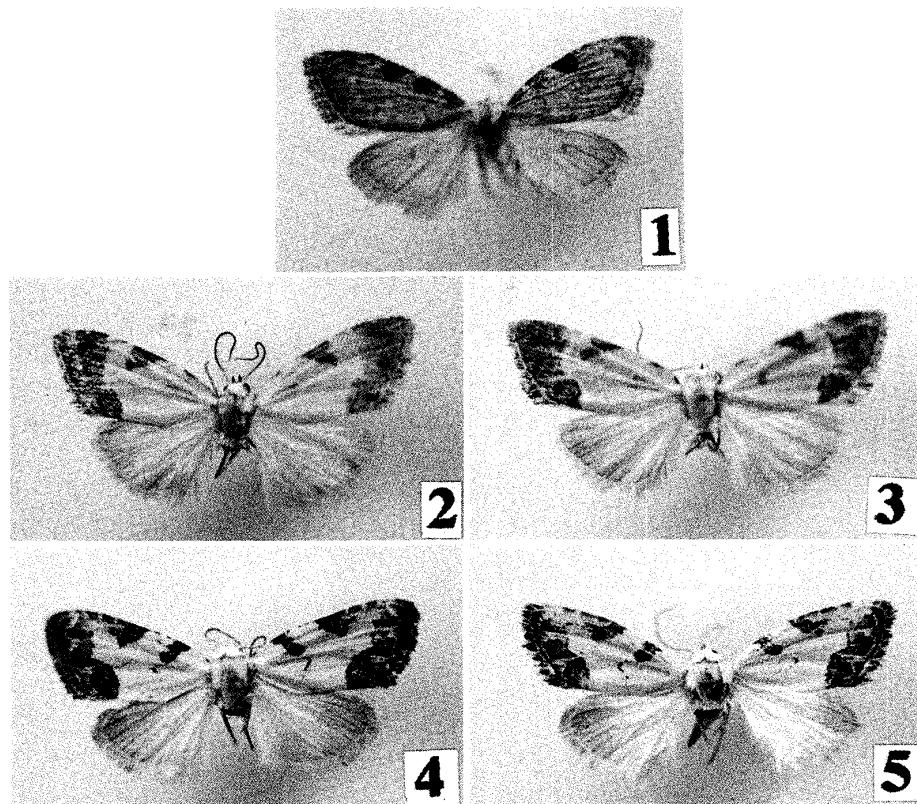
Male genitalia (Fig. 6). Uncus a very short and weakly sclerotized stick-like process. Valva divided into two rather broad halves, harpe a robust process, nearly pointed at apex. Aedeagus dorsally swollen and then hollowed toward acutely pointed apex, cornutus absent.

Female unknown.

Material examined. Holotype, ♂: Hotso (=Lushan Spa), Nantou Hsien, Taiwan, 26–29. vi. 1973 (M. Owada).

Distribution. Taiwan.

Remarks. Somewhat similar to *N. analis* (Wileman & West) (*cf.* Inoue, 1998: 90, pl. 140: 1), but distinguished from it by much darker ground colour and less heavy costal marks on the forewing. In *analis* a spine-like cornutus is developed and the harpe is much more slender.



Figs 1-5. Two new nolines from Taiwan. 1. *Nola quadriguttula* sp. nov. Holotype ♂. 2. *Rhynchopalpus yoshimotoi* sp. nov. Holotype ♂. 3. *Ditto*, Paratype ♀. 4. *R. pulchella* (Leech), ♂. 5. *Ditto*, ♀.

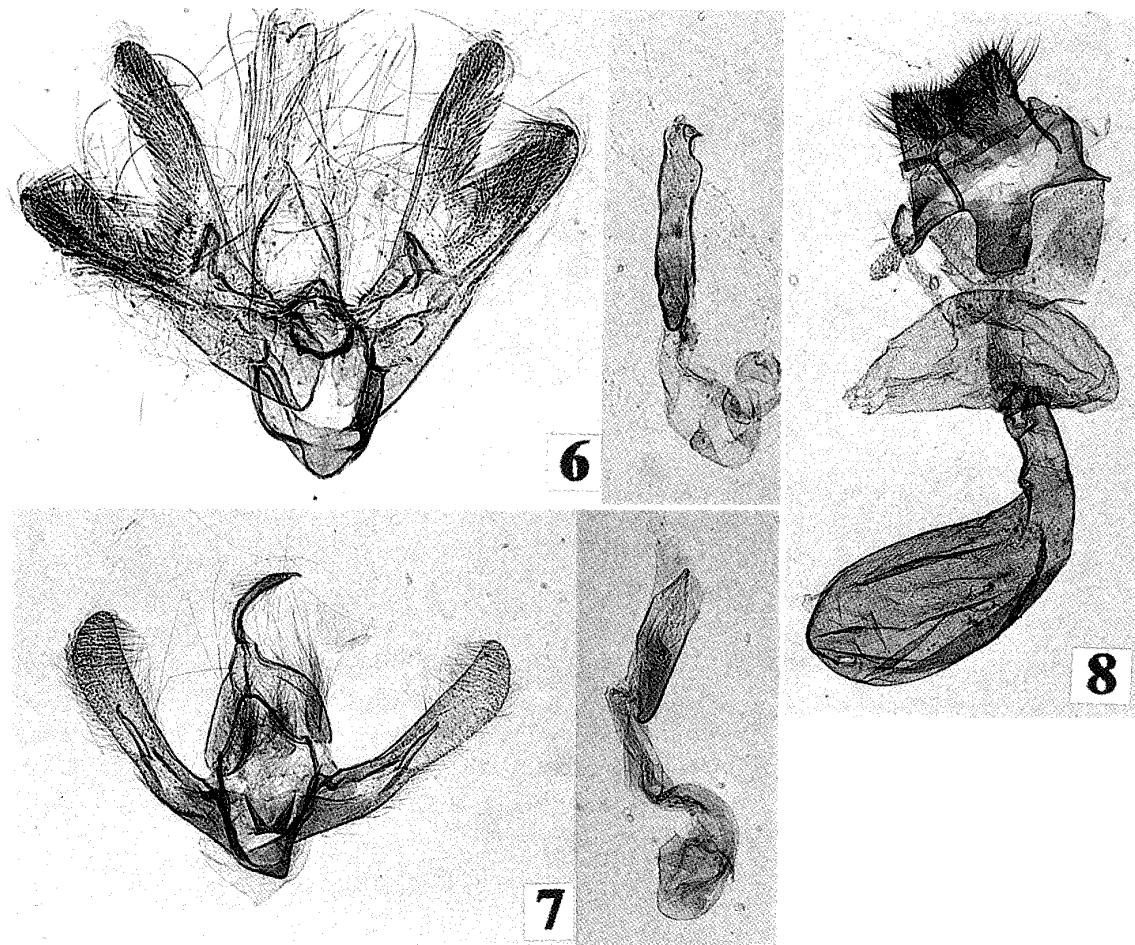
#### *Rhynchopalpus yoshimotoi* sp. nov. (Figs 2-3)

Antenna in male densely ciliate, length of longest ciliae over five times longer than width of shaft. Palpus and ventral half of frons blackish brown, dorsal half of frons, crown of head and scape of antenna white. Thorax above, pagadium and tegula white.

Wingspan, ♂♀ 15-16 mm. Wings white, forewing with very thin brownish hue. Forewing with antemedian line very weak, starting from a weak costal patch, postmedian starting from a large dark brown mark, then almost vanishing; there are silvery scales around the costal marks; terminal area infuscated, margined proximally with blackish brown line, subterminal blackish mark mixed with silvery scales. Fringe dark grey. Hindwing white, almost unmarked, terminal area and fringe pale grey. Under surface, forewing dark grey, costal mark at the commencement of postmedian line faintly reproduced, white subterminal line parallel with termen. Hindwing unmarked, darker toward termen.

Male genitalia (Fig. 7). Uncus elongate, beak-shaped, about one-third length from tip of tegumen to the tip of saccus. Valva elongate, a little expanded distad, harpe a spine-like process, length from base of sacculus to tip of harpe about half length of valva. Aedeagus short, cylindrical, cornutus absent.

Female genitalia (Fig. 8). Papillae analis flat, apophysis posterioris about as long as papillae analis, apophysis anterioris much shorter. Colliculum oblong, ductus bursae and ovate corpus bursae almost equal in length, signum absent.



Figs 6-8. Male and female genitalia of two new nolines from Taiwan. 6. *Nola quadriguttula* sp. nov., male (HI Slide 12243). 7. *Rhynchopalpus yoshimotoi* sp. nov., male (HI Slide 12507). 8. *Ditto*, female (HI Slide 12508).

Material examined. Holotype, ♂, and paratype, 1 ♀: Lushan Spa, 1,200 m, Nantou Hsien, Taiwan, 29. iv-1. v. 1984 (H. Yoshimoto).

Distribution. Taiwan.

Remarks. Closely related to *Rhynchopalpus pulchella* (Leech), **comb. nov.** (Figs 4-5) (cf. Inoue, 1982: 663, pl. 154: 30; pl. 350: 5; pl. 353: 3) from Japan, Korea and China, but distinguished from it as follows: forewing with the ground colour not pure white, maculation weaker, less blackish. Male genitalia with the spine-like harpe much shorter and female genitalia with colliculum and ductus bursae more slender.

Following Hampson's classification (1900 & 1914) I placed *Acontia pulchella* Leech, 1889 in *Poecilonola* Hampson, 1900: 27 (type species *Selca plagiata* Hampson, 1898 from Sri Lanka), (Inoue, 1958: 219, pl. 123: 2602; *id.*, 1959: 96, pl. 59: 6; *id.*, 1982, *loc. cit.*), but from the general feature of the genitalia I have transferred it to *Rhynchopalpus* Hampson, 1893 (type species *Aglossa argentalis* Moore, 1867 from Darjeeling, India) (cf. Holloway & Miller, 1994).

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## 摘要

台湾からのコブガ亜科（ヤガ科）の2新種（井上寛）

台湾中部の廬山温泉で採集された *Nola quadriguttula* と *Rhynchopalpus yoshimotoi* という2新種を記載した。後種は日本の *Rhynchopalpus pulchella* (Leech) ツマモンコブガにごく近縁で、従来このコブガを私は Hampson (1900) の分類によって *Poecilonola* に入れていたが (井上, 1958, 1959, 1982), ゲニタリアの特徴から今回 *Rhynchopalpus* に移した。

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